



OIPE

## RAW SEQUENCE LISTING

DATE: 07/02/2002

PATENT APPLICATION: US/09/931,732B

TIME: 10:11:42

Input Set : A:\OASBIO.001C1.TXT

Output Set: N:\CRF3\07022002\I931732B.raw

4 <110> APPLICANT: Brown, Bob D.  
 5 Riley, Timothy A.  
 7 <120> TITLE OF INVENTION: ANTISENSE OLIGONUCLEOTIDES COMPRISING  
 8 UNIVERSAL AND/OR DEGENERATE BASES  
 11 <130> FILE REFERENCE: OASBIO.001C1  
 C--> 13 <140> CURRENT APPLICATION NUMBER: US/09/931,732B  
 C--> 13 <141> CURRENT FILING DATE: 2002-06-14  
 13 <150> PRIOR APPLICATION NUMBER: PCT/US00/09293  
 14 <151> PRIOR FILING DATE: 2000-04-07  
 16 <150> PRIOR APPLICATION NUMBER: US 60/128,377  
 17 <151> PRIOR FILING DATE: 1999-04-08  
 19 <160> NUMBER OF SEQ ID NOS: 30  
 21 <170> SOFTWARE: FastSEQ for Windows Version 4.0  
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 24 <211> LENGTH: 18  
 25 <212> TYPE: DNA  
 26 <213> ORGANISM: Artificial Sequence  
 28 <220> FEATURE:  
 29 <223> OTHER INFORMATION: Synthetic oligonucleotide primers  
 W--> 31 <221> NAME/KEY: misc\_feature  
 32 <222> LOCATION: 1-6, 13-18  
 33 <223> OTHER INFORMATION: n = Natural or non-naturally occurring base  
 W--> 35 <221> misc\_feature  
 36 <222> LOCATION: 7-12  
 37 <223> OTHER INFORMATION: n = Universal or degenerate base  
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 W--> 40 nnnnnnnnnnnn nnnnnnnnnn 18  
 42 <210> SEQ ID NO: 2  
 43 <211> LENGTH: 18  
 44 <212> TYPE: DNA  
 45 <213> ORGANISM: Artificial Sequence  
 47 <220> FEATURE:  
 48 <223> OTHER INFORMATION: Synthetic oligonucleotide primers  
 W--> 50 <221> NAME/KEY: misc\_feature  
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 52 <223> OTHER INFORMATION: n = Natural or non-naturally occurring base  
 W--> 54 <221> misc\_feature  
 55 <222> LOCATION: 7-12  
 56 <223> OTHER INFORMATION: n = Universal or degenerate base  
 W--> 58 <400> 2  
 W--> 59 nnnnnnnnnnnn nnnnnnnnnn 18  
 61 <210> SEQ ID NO: 3  
 62 <211> LENGTH: 18

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63 <212> TYPE: DNA
64 <213> ORGANISM: Artificial Sequence
66 <220> FEATURE:
67 <223> OTHER INFORMATION: Synthetic oligonucleotide primers
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70 <222> LOCATION: 1-6, 13-18
71 <223> OTHER INFORMATION: n = Natural or non-naturally occurring base
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74 <222> LOCATION: 7-12
75 <223> OTHER INFORMATION: n = universal or degenerate base
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W--> 78 nnnnnnnnnnnn nnnnnnnnnn 18
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81 <211> LENGTH: 18
82 <212> TYPE: DNA
83 <213> ORGANISM: Artificial Sequence
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86 <223> OTHER INFORMATION: Synthetic oligonucleotide primers
W--> 88 <221> NAME/KEY: misc_feature
89 <222> LOCATION: 1-6, 13-18
90 <223> OTHER INFORMATION: n = Natural or non-naturally occurring base
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93 <222> LOCATION: 7-12
94 <223> OTHER INFORMATION: n = Universal or degenerate base
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99 <210> SEQ ID NO: 5
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101 <212> TYPE: DNA
102 <213> ORGANISM: Artificial Sequence
104 <220> FEATURE:
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W--> 107 <221> NAME/KEY: misc_feature
108 <222> LOCATION: 1-3, 5-6, 9, 11, 13, 15-16, 18
109 <223> OTHER INFORMATION: n = Natural or non-naturally occurring base
W--> 111 <221> misc_feature
112 <222> LOCATION: 4, 7-8, 10, 12, 14, 17
113 <223> OTHER INFORMATION: n = Universal or degenerate base
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W--> 116 nnnnnnnnnnnn nnnnnnnnnn 18
118 <210> SEQ ID NO: 6
119 <211> LENGTH: 18
120 <212> TYPE: DNA
121 <213> ORGANISM: Artificial Sequence
123 <220> FEATURE:
124 <223> OTHER INFORMATION: Synthetic oligonucleotide primers
W--> 126 <221> NAME/KEY: misc_feature
127 <222> LOCATION: 1-3, 5-6, 9, 11, 13, 15-16, 18
128 <223> OTHER INFORMATION: n = Natural or non-naturally occurring base

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Input Set : A:\OASBIO.001C1.TXT

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W--> 130 <221> misc\_feature  
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161 <220> FEATURE:  
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W--> 164 <221> NAME/KEY: misc\_feature  
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166 <223> OTHER INFORMATION: n = Natural or non-naturally occurring base

W--> 168 <221> misc\_feature  
169 <222> LOCATION: 4, 7-8, 10, 12, 14, 17  
170 <223> OTHER INFORMATION: n = Universal or degenerate base

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176 <211> LENGTH: 18  
177 <212> TYPE: DNA  
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181 <223> OTHER INFORMATION: Synthetic oligonucleotide primers

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185 <223> OTHER INFORMATION: n = Natural or non-naturally occurring base

W--> 187 <221> misc\_feature  
188 <222> LOCATION: 4, 7-8, 10, 12, 14, 17  
189 <223> OTHER INFORMATION: n = Universal or degenerate base

W--> 191 <400> 9  
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Input Set : A:\OASBIO.001C1.TXT

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96 <212> TYPE: DNA
97 <213> ORGANISM: Artificial Sequence
99 <220> FEATURE:
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03 <222> LOCATION: 1-3, 5-6, 9, 11, 13, 15-16, 18
04 <223> OTHER INFORMATION: n = Natural or non-naturally occurring base
W-->06 <221> misc_feature
07 <222> LOCATION: 4, 7-8, 10, 12, 14, 17
08 <223> OTHER INFORMATION: n = Universal or degenerate base
W-->10 <400> 10
11 nnnnnnnnnnnn nnnnnnnnnn 18
13 <210> SEQ ID NO: 11
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15 <212> TYPE: DNA
16 <213> ORGANISM: Artificial Sequence
18 <220> FEATURE:
19 <223> OTHER INFORMATION: Synthetic oligonucleotide primers
->21 <221> NAME/KEY: misc_feature
22 <222> LOCATION: 1-3, 5-6, 9, 11, 13, 15-16, 18
23 <223> OTHER INFORMATION: n = Natural or non-naturally occurring base
-->25 <221> misc_feature
26 <222> LOCATION: 4, 7-8, 10, 12, 14, 17
27 <223> OTHER INFORMATION: n = Universal or degenerate base
-->29 <400> 11
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32 <210> SEQ ID NO: 12
33 <211> LENGTH: 22
34 <212> TYPE: DNA
35 <213> ORGANISM: Artificial Sequence
37 <220> FEATURE:
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40 <400> SEQUENCE: 12
41 cgaaattaaa tcgactcact at 22
43 <210> SEQ ID NO: 13
44 <211> LENGTH: 80
45 <212> TYPE: DNA
46 <213> ORGANISM: Artificial Sequence
48 <220> FEATURE:
49 <223> OTHER INFORMATION: Synthetic oligonucleotide primers
51 <400> SEQUENCE: 13
52 caggcccagc agcagcagca gcagcagcat ggtgggcgaa ttcgcgattc gaagccctat 60
53 agtgagtcgt attaatctcg 80
55 <210> SEQ ID NO: 14
56 <211> LENGTH: 22
57 <212> TYPE: DNA
58 <213> ORGANISM: Artificial Sequence
60 <220> FEATURE:
61 <223> OTHER INFORMATION: Synthetic oligonucleotide primers

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Input Set : A:\OASBIO.001C1.TXT

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263 <400> SEQUENCE: 14
264 ggttctcctc ctcaactggg at
266 <210> SEQ ID NO: 15
267 <211> LENGTH: 76
268 <212> TYPE: DNA
269 <213> ORGANISM: Artificial Sequence
271 <220> FEATURE:
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274 <400> SEQUENCE: 15
275 ggttctcctc ctcaactggg atgatgccca gggagagctg tagcctcagg cccagcagca 60
276 gcagcagcag cagcat
278 <210> SEQ ID NO: 16
279 <211> LENGTH: 100
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281 <213> ORGANISM: Artificial Sequence
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288 cagctctccc tggcatcat cccagttgag gaggagaacc
290 <210> SEQ ID NO: 17
291 <211> LENGTH: 18
292 <212> TYPE: DNA
293 <213> ORGANISM: Artificial Sequence
295 <220> FEATURE:
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299 <222> LOCATION: 7-12
300 <223> OTHER INFORMATION: b = Universal or degenerate base
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305 <210> SEQ ID NO: 18
306 <211> LENGTH: 20
307 <212> TYPE: DNA
308 <213> ORGANISM: Artificial Sequence
310 <220> FEATURE:
311 <223> OTHER INFORMATION: Synthetic oligonucleotide primers
313 <400> SEQUENCE: 18
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316 <210> SEQ ID NO: 19
317 <211> LENGTH: 18
318 <212> TYPE: DNA
319 <213> ORGANISM: Artificial Sequence
321 <220> FEATURE:
322 <223> OTHER INFORMATION: Synthetic oligonucleotide primers
W--> 324 <221> NAME/KEY: misc_feature
325 <222> LOCATION: 4, 7-8, 10, 12, 14, 17
326 <223> OTHER INFORMATION: b = Universal or degenerate base
W--> 328 <400> 19

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RAW SEQUENCE LISTING ERROR SUMMARY  
PATENT APPLICATION: US/09/931,732B

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Input Set : A:\OASBIO.001C1.TXT  
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Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:1; N Pos. 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18  
Seq#:2; N Pos. 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18  
Seq#:3; N Pos. 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18  
Seq#:4; N Pos. 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18  
Seq#:5; N Pos. 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18  
Seq#:6; N Pos. 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18  
Seq#:7; N Pos. 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18  
Seq#:8; N Pos. 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18  
Seq#:9; N Pos. 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18  
Seq#:10; N Pos. 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18  
Seq#:11; N Pos. 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18  
Seq#:26; N Pos. 6,12,14  
Seq#:30; N Pos. 4,6,9,12,17